A Weapon System's Understanding of the DoD UID Policy

" Some Basic Truths from Lessons Learned by the CH-47"

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UID is the key "_Enabler_" for True Fleet Management

The DoD Objective Requires Process Change!

- *UID is not about Marking Parts.*
- *UID is about "Intelligent Data"*

Mark Parts
- Legacy
- New

+

Information Systems

Maintenance
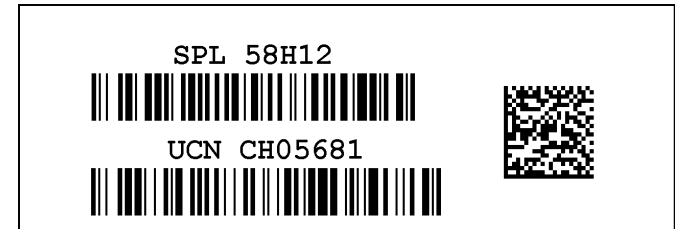Supply
Transportation

Yields

Intelligent Data

Enable

Fleet Management

How did the Cargo PMO select a path forward?

- 2-data element configuration for UID.

- Re-serialize existing parts with Government CAGE.

- 3-data elements on part.

- Only current part number on label.

- Interoperable with Current

SPL 58H12

UCN CH05681

Combining Transmission

PNR 145D5300-11

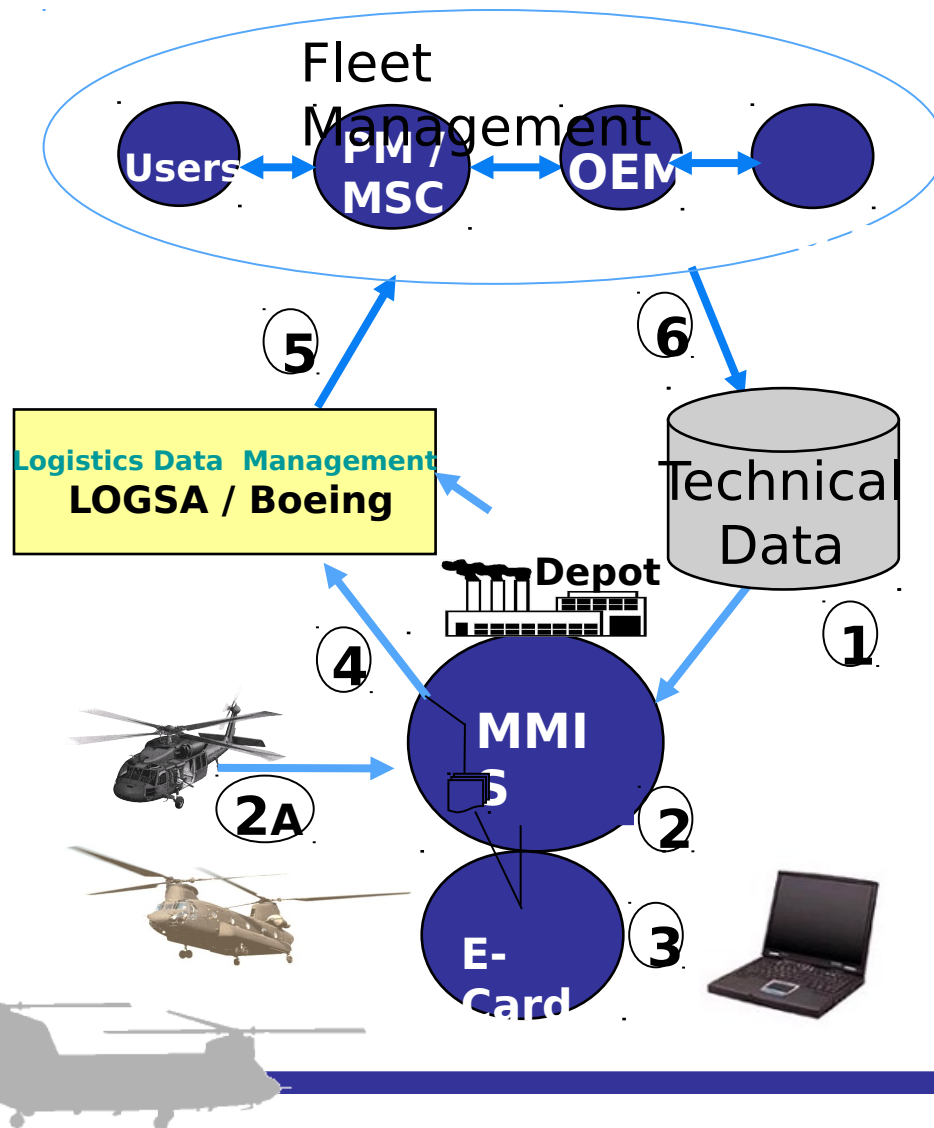**PM Cargo Parts Marking Solution =**
UID Compliant!

Current Parts Marking Status.

- Separate Part Numbers Targeted for UID

  – 1175

- Separate Part Numbers approved for marking.

  – 136

- Total Parts marked in the field.

  – 786

PM Cargo AIS Solution. CPME

Fleet Management

Users ↔ **PM / MSC** ↔ **OEM** ↔

5

6

Logistics Data Management
LOGSA / Boeing

Technical Data

Depot

4

1

MMIS

2A

2

E-Card

3

Closed-Loop System

Step 1 - Technical Data is maintained in a central database. Changes are transmitted to the MMIS at the user location.

Step 2 - The MMIS assembles technical data in card format.

Step 2A – On-Board system provides Health and Usage Data to MMIS.

Step 3 - Maintainer performs maintenance and "documents" via electronic card
(E-Card) or IETM through MMIS.

Step 4 - The MMIS provides local management capabilities and sends field data to GCSS-Army.

Step 5 - **Fleet Management**: Data is accessed and analysed, by PM, User, Higher headquarters, OEM and other stakeholders.

Step 6 – Two way communication permits feedback from fleet level.

Today's Intelligent Data

means

Shared Data – Shared Benefits

Available over the Web

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Commander's Dashboard - Unit: WP1DAA

Timelines
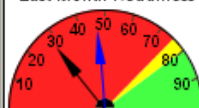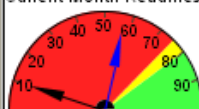Readiness
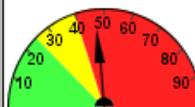Operational
Phase/Reset
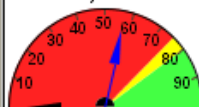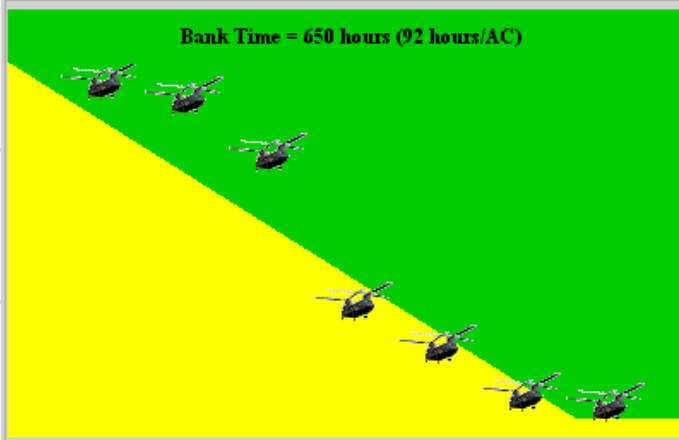Alterations

Last Month Readiness
Current Month Readiness
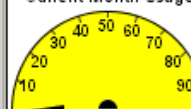Last Month MTF Ratio
Yesterday's Readiness

Bank Time = 650 hours (92 hours/AC)

Last Month Usage
Current Month Usage
Year to Date Usage
Last Month MTF Usage

Trends
Readiness
Utilization

Analysis
Reliability
Experience
Maint Planning

S/N 8700100	S/N 9100269	S/N 9100270	S/N 9200281	S/N 9200282	S/N 9200287	S/N 9200288
Hours 5354.5	Hours 4460.3	Hours 3916.8	Hours 2026.9	Hours 3534.2	Hours 3850.2	Hours 2140.1
Phase 5554.5	Phase 4661.4	Phase 3952.6	Phase 2182.0	Phase 3596.9	Phase 4040.7	Phase 2147.0
Fly to 19.7	Fly to 0.0	Fly to -3.7	Fly to 45.1	Fly to -12.0	Fly to 45.3	Fly to 2.5

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Installed Parts for LCN 05B01KG

Aircraft	Part No.	Serial No.	Part	Lcn	Alt Lcn	Lcn Name	Subsystem	Subsys Name	Cage Code	Fitted	Operated	Threshold	Cumulative	Remaining
8424158	114R2197-7	A401AC	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Sep 23, 2003 12:00:00 AM	Sep 23, 2003 3:38:42 PM	4800	3828.2	971.8
8424154	114R2197-7	RL1566	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Sep 29, 2003 12:00:00 AM	Nov 29, 2003 12:06:00 PM	3515	1403.18	2111.81
8700096	114R2197-7	RL3510	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Aug 16, 2003 12:00:00 AM	Jan 11, 2004 2:00:00 PM	3600	3443.55	156.45
8700100	114R2197-7	RL5029	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Jun 26, 2003 12:00:00 AM	Jun 26, 2003 4:24:31 PM	4820	2961.5	1858.5
8900135	114R2197-7	TZ-1021	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Nov 7, 2003 12:00:00 AM	Nov 7, 2003 10:07:26 AM	3330	1162.8	2167.2
9200282	114R2197-7	TZ1281	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Jun 25, 2003 12:00:00 AM	Jan 26, 2004 12:00:00 PM	5957	3871.2	2085.8
8700083	114R2197-7	UW736A	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Nov 19, 2003 12:00:00 AM	Jan 15, 2004 12:20:00 PM	3844	1639.7	2204.3
8900130	114R2197-7	VM-5679	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Dec 1, 2003 12:00:00 AM	Dec 1, 2003 9:44:18 AM	4800	2879.1	1920.9
8524345	114R2197-7	VM1221	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Dec 9, 2003 12:00:00 AM	Feb 18, 2004 10:50:00 AM	3999	1692.49	2306.5
8324124	114R2197-7	VM1619	HORIZONTAL HINGE PIN	05B01KG	00	AFT HORIZONTAL HINGE PIN GREEN	05	ROTOR SYSTEM	77272	Aug 15, 2003 12:00:00 AM	Feb 17, 2004 11:07:00 AM	4162	3362.03	799.96

Done | Internet

Summary

- Reducing burden on Soldier is Priority One!

- UID/AIT is the key enabler to execute logistics transformation.

- Long term commitment required.

  - Will not happen overnight for legacy systems.

- Return on investment occurs only after Information Systems are brought on line.

- CH-47 "Intelligent Data" is available today across the Web.